

**Online Resource 5. Linear regression analysis exploring the effect of COVID-19 subgroups, gender, and age on brain volume.**

	$\beta \times 10^{-6}$ (95% CI)	p
Brain volume		
Subgroup (ND)	-134.05 (-307.77; 39.67)	0.130
Subgroup (OD)	35.58 (-134.97; 206.12)	0.681
Age	-0.05 (-2.55; 2.45)	0.968
Gender (M)	243.12 (168.33; 317.92)	<b>&lt; 0.001</b>
Subgroup (ND) $\times$ Age	2.54 (-0.50; 5.57)	0.101
Subgroup (OD) $\times$ Age	-0.49 (-3.67; 2.70)	0.764
Subgroup (ND) $\times$ Gender (M)	-100.65 (-187.24; -14.05)	<b>0.023</b>
Subgroup (OD) $\times$ Gender (M)	-45.88 (-138.70; 46.94)	0.331

Linear regression model with brain volume as dependent variable and subgroup (OD, ND, and controls), age (in years) and gender (male vs female) as independent variables. Statistical significance was set at  $p < 0.05$ .

Abbreviations: COVID-19: Coronavirus disease 2019; M: male; OD: olfactory dysfunction only; ND: other neurological disorders.

**Supplementary material to:**

**Title:** MRI evidence of olfactory system alterations in patients with COVID-19 and neurological symptoms

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